

## Claims

What is claimed is:

1. A modulation stage for signal shaping comprising:  
5 means for preliminary noise-shaping of an input signal; and  
means for discrete-time sampling having a predetermined sampling frequency,  
the sampling means coupled to the noise-shaping means to produce an output signal  
with a lower transition rate with respect to said sampling frequency by a  
predetermined multiple.  
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2. A modulation stage for signal shaping of claim 1 wherein the means for  
discrete-time sampling further comprises means for suppressing sampling of the input  
signal for a set number of clock cycles.
- 15 3. A modulation stage for signal shaping of claim 2 wherein the means for  
suppressing comprises means for detecting a transition in the output signal.
4. A H-bridge controller wherein its outputs consist of three states.
- 20 5. A H-bridge controller of claim 4 wherein the gating mechanism for each leg is  
independently controlled.
6. A digital amplifier comprising:  
a modulation stage for signal shaping; and  
25 a H-bridge controller wherein its outputs consist of three states.